

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,186,160 B2  
APPLICATION NO. : 10/799859  
DATED : March 6, 2007  
INVENTOR(S) : Takeo Tsukamoto

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**ON THE TITLE PAGE ITEM (56) REFERENCES CITED:**

Item 56 U.S. Patent Documents,

“5,382,867 A 1/1995 Yuji et al.” should read --5,382,867 A  
1/1995 Maruo et al.--,  
“2002/0009637 A1 1/2002 Murakami et al.” should read  
--2002/0009637 A1 1/2002 Murakami et al.--; and

Item 56 Foreign Patent Documents,

“EP 0 989 084 A2 3/2000” should read --EP 0 986 084  
A2 3/2000--,  
“JP WO 89/07163 8/1989” should read --WO WO 89/07163  
8/1989--; and

Item 56 Other Publications,

T. Guo et al.: “Single- Walled” should read --Single-Walled--,  
A.C. Dillon et al.: “Single- Walled” should read  
--Single-Walled--,  
Delete “C.A. Spindt et al., ...pp. 5248-5263.” second  
occurrence,  
G. Dittmer,: “Thin Film”,” should read --Thin Films”,--,  
A.M. Rao et al.,: Delete “of”, and  
A.M. Rao et al.,: “Letter,” should read --Letters,--.

**COLUMN 5:**

Line 29, “so-that” should read --so that--.

**COLUMN 6:**

Line 50, “AS” should read --As--.

**COLUMN 8:**

Line 18, “10 nm” should read --10 nm and--.

**COLUMN 10:**

Line 44, “improved-reliability.” should read --improved reliability.--; and  
Line 52, “No,” should read --Ni,--.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,186,160 B2  
APPLICATION NO. : 10/799859  
DATED : March 6, 2007  
INVENTOR(S) : Takeo Tsukamoto

Page 2 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**COLUMN 11:**

Line 7, "case." should read --cases--;  
Line 20, "a" first occurrence should read --an--; and  
Line 41, "field)" should read --field))--.

**COLUMN 12:**

Line 59, "envelop" should read --envelope--; and  
Line 63, "envelop" should read --envelope--.

**COLUMN 13:**

Line 2, "be-directly" should read --be directly--;  
Line 3, "envelop" should read --envelope--;  
Line 7, "envelop" should read --envelope--; and  
Line 9, "will-be" should read --will be--.

**COLUMN 14:**

Line 50, "was" should read --were--.

**COLUMN 15:**

Line 56, "film-having" should read --film having--; and  
Line 63, "arrangement-enabled" should read --arrangement enabled--.

**COLUMN 16:**

Line 9, "fabricated" should read --fabricated according to--; and  
Line 54, "in" should read --m--.

**COLUMN 17:**

Line 23, "envelop" should read --envelope--;  
Line 30, "envelop" should read --envelope--;  
Line 34, "envelop" should read --envelope--;  
Line 41, "on" should read --on the--; and  
Line 46, "voltage" should read --voltages--.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,186,160 B2  
APPLICATION NO. : 10/799859  
DATED : March 6, 2007  
INVENTOR(S) : Takeo Tsukamoto

Page 3 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**COLUMN 18:**

Line 37, "thresh old" should read --threshold--.

**COLUMN 19:**

Line 3, "are-added" should read --are added--.

Signed and Sealed this

Twentieth Day of May, 2008



JON W. DUDAS  
*Director of the United States Patent and Trademark Office*